

BOARD ON ENVIRONMENTAL STUDIES AND TOXICOLOGY
85th Meeting: August 4-5, 2015
J. Erik Jonsson Center of the National Academies
314 Quisset Avenue, Woods Hole, MA 02543

<u>Tuesday, August 4, 2015</u>	<u>Member</u>	<u>Staff</u>	<u>Tab</u>
8:00 Working Breakfast (Hackerman House) – Discuss Meeting Plans			
EXECUTIVE SESSION (Carriage House)			
9:00 Welcome	Henderson	Reisa	
9:05 January 2015 Minutes	Henderson	Clarke	C
9:10 State of the Board; Agenda Preview		Reisa	A-P
9:30 Reflections on Recent Report: <i>Applications of Modern Toxicology Approaches for Predicting Acute Toxicity for Chemical Defense</i>	Dorman	Mantus	I
10:00 Oversight: Experts for IRIS Workshops Risks to Human Test Subjects		Wassel Wassel	H,L F,L
10:15 Break			
OPEN SESSION (Carriage House)			
10:30 Developments at EPA and Potential New BEST Studies (Thomas Burke , EPA Science Advisor and Deputy Asst Administrator, ORD; Lek Kadeli , Principal Deputy Asst Administrator, ORD/EPA; Ken Olden Director, Natl Center for Environmental Assessment, ORD/EPA; Vince Cogliano , Director, IRIS Program, ORD/EPA)			
11:00 Discussion of Potential New Studies for EPA			
Review of EPA's STAR Research Grants Program		Boyle	K
A Research Strategy for Environmental and Health Risks of Hydraulic Fracturing for Oil and Gas Extraction on Water Resources		Wassel	K
Review of EPA's Progress in Improving the IRIS Process		Mantus	K
Review of EPA's Revised Draft IRIS Assessment of Formaldehyde		Mantus	F,K
Impact of the Human Microbiome on Metabolism of Exogenous Chemicals and its Implications for Risk Assessment		Mantus	K

- 12:30 Working Lunch (Hackerman House)
[Remarks -- **Paul Anastas**, Yale University – “Reflections on My Tenure at EPA”]
- 2:00 Concurrent Sessions of BEST Work Groups (see agenda for each group)
Work Group 1 (Carriage House) Halperin Mantus
Work Group 2 (Hackerman Room 208) Matthews Wassel
- 6:00 Reception (Hackerman House)
- 7:00 Working Dinner (Hackerman House)
[Remarks – **Kenneth Olden**, EPA – “Improving EPA’s IRIS Program”]

BOARD ON ENVIRONMENTAL STUDIES AND TOXICOLOGY
Work Group 1: Toxicology and Risk Assessment

Members

William Halperin (chair)	Robert Hiatt
Richard Becker	Samuel Kacew
Gail Charnley	Thomas McKone
David Dorman	Terry Medley
William Farland	Gina Solomon
Lynn Goldman	Peter Thorne
Linda Greer	Joyce Tsuji
Dominic Di Toro	

Staff

Ellen Mantus
Susan Martel
Liz Boyle
Ivory Clarke
Tamara Dawson

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OPEN SESSION (Carriage House)

2:00	Possible New Study for EPA on Dosimetry (Annie Jarabek, EPA)	Halperin		L
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CLOSED SESSION (Carriage House)

2:30	Further Discussion of Potential EPA Studies from Morning Session	Halperin		K
3:15	Acute Exposure Guidelines for Chloroformates		Martel	J
3:30	Possible New Study for the Veterans Administration – Contaminated Water Supplies at Camp Lejeune: Updated Assessment of Health Effects		Martel	K
4:15	Bob Kavlock DEPS/TRB Study of Plug-In Electric Vehicles		Mantus	L L
5:00	Oversight— New Science in Risk-Based Evaluations Low-Dose Toxicity, Systematic Review Review of the IRIS Arsenic Draft Spacecraft Exposure Guidelines Committee on Toxicology	Halperin Tsuji	Mantus Martel Martel Martel	F,M F,M M M M
	Nominations-- <u>Members:</u> Arsenic Final, Owens Lake, STAR grants, Hydrofracking, IRIS, Formaldehyde, Microbiome, Camp Lejeune <u>Reviewers:</u> Human Subjects			P
6:00	Reception (Hackerman House)			
7:00	Working Dinner (Hackerman House) [Remarks – Kenneth Olden , EPA – Improving EPA's IRIS Program"]			

BOARD ON ENVIRONMENTAL STUDIES AND TOXICOLOGY
Work Group 2: Environmental Studies

Members

Jonathan Cannon
Praveen Amar
Michael Bradley
Charles Driscoll
Steven Hamburg

Philip Hopke
Scott Matthews (acting chair)
Jana Milford
Mark Ratner
Joan Rose

Staff

Raymond Wassel
David Policansky
Orin Luke

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EXECUTIVE SESSION (Hackerman House Room 208)

2:00	Further Discussion of Potential EPA Studies from Morning Session	Matthews	Wassel	K
3:30	Owens Lake		Wassel	M
	Monitoring and Inventories of Methane Emissions	Hamburg	Wassel	N
	Rethinking <i>Rethinking the Ozone Problem</i>	Amar Bradley	Wassel	N
	Northwest Power and Conservation Council		Policansky	O
	Gulf Research Program	Goldman	Wassel	N
5:00	Nominations-- <u>Members</u> : Arsenic Final, Owens Lake, STAR grants, Hydrofracking, IRIS, Formaldehyde, Microbiome, Camp Lejeune <u>Reviewers</u> : Human Subjects			P
6:00	Reception (Hackerman House)			
7:00	Working Dinner (Hackerman House) [Remarks – Kenneth Olden , EPA – Improving EPA's IRIS Program"]			

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8:00 Working Breakfast (Hackerman House) – Discussion of Work Group Sessions

EXECUTIVE SESSION (Carriage House)

9:00 Valedictory Remarks

Henderson
Bradley
Cannon (by phone)
Charnley-Elliott
Goldman
Medley
Milford

10:00 FOR APPROVAL:

Review of EPA's STAR
Research Grants Program

K

A Research Strategy for Health and
Environmental Risks of Hydraulic
Fracturing for Oil and Gas Extraction
on Water Resources

K

Review of EPA's Progress in
Improving the IRIS Process

K

Review of EPA's Revised Draft
IRIS Assessment of Formaldehyde

K

Impact of the Human Microbiome on
Metabolism of Exogenous Chemicals
and its Implications for Risk Assessment

K

Contaminated Water Supplies at
Camp Lejeune: Updated Assessment
of Health Effects

K

11:00 Work Group 1 Report

Halperin

11:30 Work Group 2 Report

Matthews

12:00 Working Lunch (Hackerman House) – Discussion of Work Group Reports

1:00 Adjourn